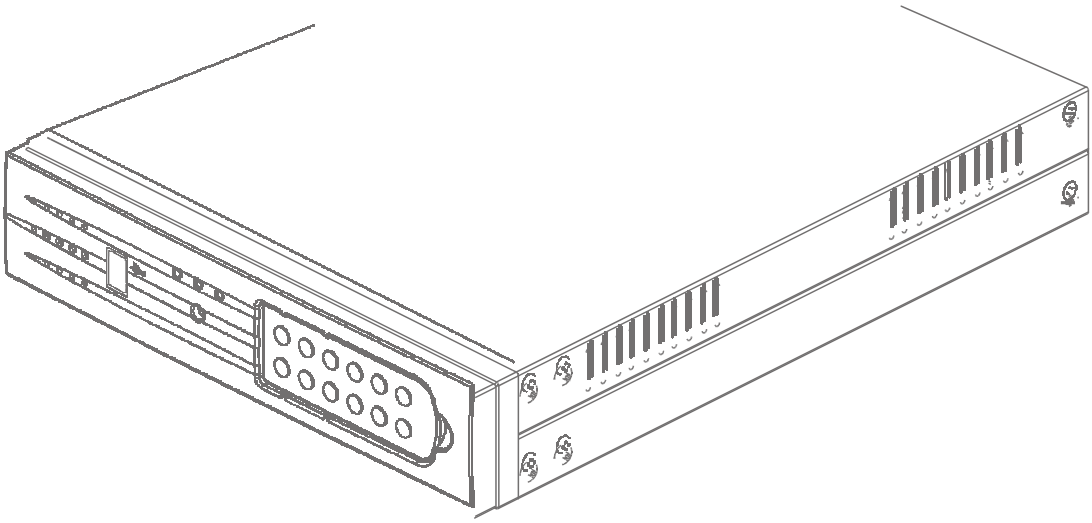
optiva

VODVR S04IR

USER MANUAL



2007 Feb. Ver 1.0

VOLTA

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Warning !!

Please use the certified hard driver below to avoid the compatibility problem.

★

HDD Compatibility:

Brand Name	Capacity
Samsung	80GB / 160GB
Seagate	80GB / 160GB
Maxtor	80GB / 160GB

1、FEATURE

1、Definitely Standalone.

2、Real Time Refresh Rate.

3、Display While Recording.

4、Frame Recording & Quad Recording.

5、Compatible of NTSC/PAL format.

6、Advanced MJPEG.

7、Manual / Motion / Programmed

8、Search by Time / Date.

9、Watch dog feature.

10、HDD Volume Indicator.

11、Can use USB to link PC, Player can search Time to Play、saving and take photos functions.

12、Internal motion detect feature.

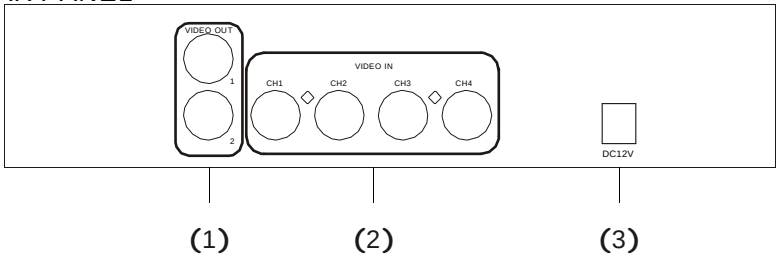
13、Remote Control.

2、SPECIFICATIONS

OPERATION SYSTEM	Embedded RTOS		
Video Input	NTSC/PAL		
Video Input Channel	4CH Composite		
Video Output Channel	2CH Composite (VCR OUT / MONITOR OUT)		
Display Frame	NTSC	120 fps (4x30 fps)	
	PAL	100 fps (4x25 fps)	
Recording Frame Rate(QUAD)	NTSC	Max. 30 fps	
	PAL	Max. 25 fps	
Recording Frame Rate(EACH)	NTSC	Max. 7.5fps(30 fps/4)	
	PAL	Max. 6.25fps(25 fps/4)	
Recording Mode	Continuous / Motion / Programmed		
Resolution	Display	NTSC	720x480
		PAL	720 x 576
	Recording	NTSC	640x224
		PAL	640x272
Compression Format	Advanced MJPEG	Low	12K Bytes / Frame
		Normal	15K Bytes / Frame
		High	20K Bytes / Frame
HDD	400G X 2 (Max)		
Backup Device	VCR		
Search	Mode	Time / Date / Event	
	Full screen	YES	
MOTION DETECT	YES		
LOSS DETECT	YES		
BUZZER OUTPUT	YES		
Brightness adjust	YES		
Contrast adjust	YES		
USB Output	YES		
System a monitor	Power recover auto restore record mode		
Power supply	DC 12V / 4A(AC110V~240V 50/60HZ)		
Dimension	220mm x 288mm x 48mm (W x D x H)		
Weight	2KG		

3、INSTALLATION

REAR PANEL



(1) (2) (3)

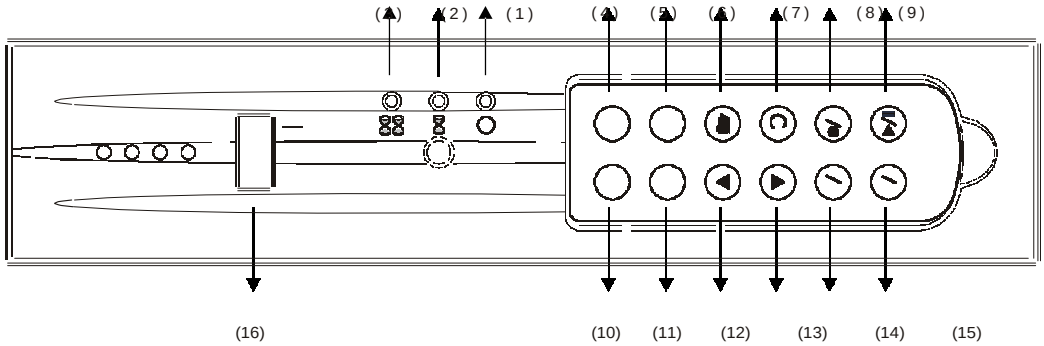
(1) Video Output : Corresponding to Video Input.

(2) Video IN : Cameras to Video Input.

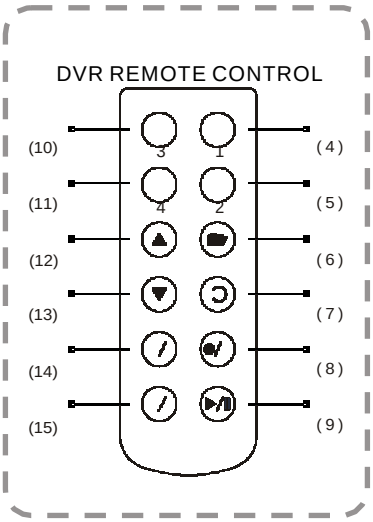
(3)Power Input : Please use the power supply attached

Adaptor : DC-12V / 4A

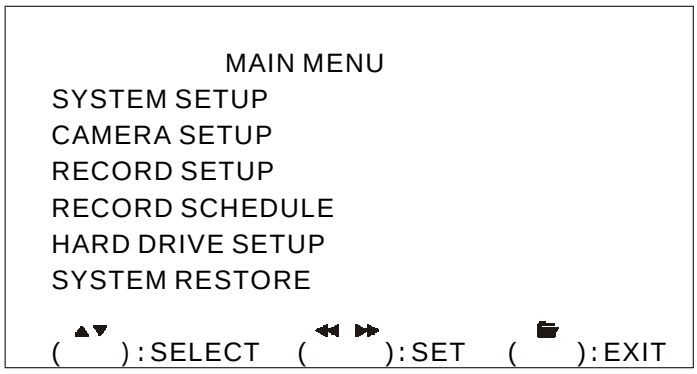
4、FRONT PANEL



(1) Record Indicator
(2) HDD #1 Indicator
(3) HDD #2 Indicator
(4) Camera #1 Display (Ch1)
(5) Camera #2 Display (Ch2)
(6) MENU, Percentage of the Hard Drive recorded
(7) SELECT
(8) RECORD / STOP
(9) PLAY / PAUSE
(10) Camera #3 Display (Ch3)
(11) Camera #4 Display (Ch4)
(12) UP
(13) DOWN
(14) RF
(15) FF
(16) USB Port

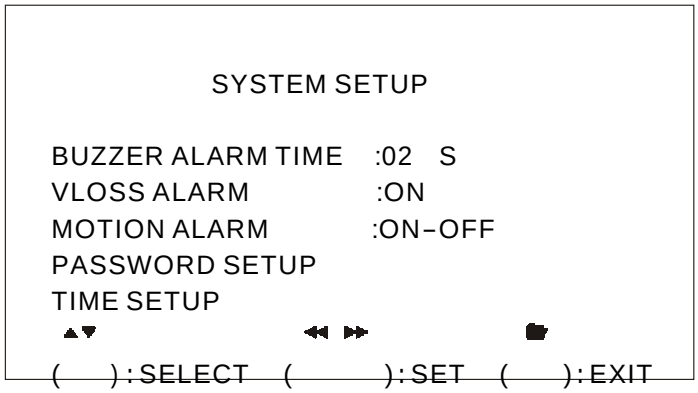


5、OPERATING MANUAL(MAIN MENU)



Press to select items, use to enter.
Press to exit

5-1 、SYSTEM SETUP



(1) Buzzer Alarm Time Setup: 1-30 sec.

(2) VLoss Alarm : ON/OFF.

(3) Motion Alarm : ON-OFF(4 Type) ,front is Alarm, behind is jump to alarm a picture.

5-1-1 、PASSWORD SETUP

Select this item to change password :

OLD PASSWORD :_____
NEW PASSWORD :_____
PASSWORD CONFIRM :_____

(1) When the new password is accepted, the board will flash the following screen message.
“ PASSWORD CHANGING ”
(2) If the password was not accepted, you will receive a message that inform you.
“ INCORRECT ”
* Use the view control button on the front panel to input the umber.

5-1-2 、TIME SETUP

Select this item to set up current time.

Time format:yyyy/mm/dd

TIME SET

2004/12/17 18:00:30

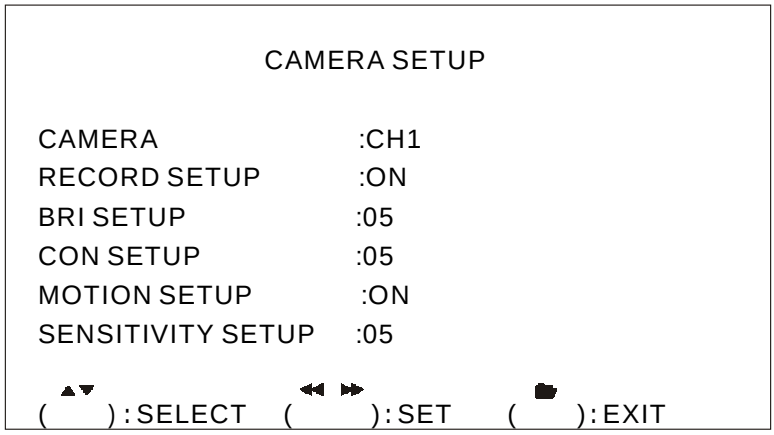
SHOW : UP 1

( ):SELECT ( ):SET ( ):EXIT

* Press to setup time. Use to change value.
Press to exit and to save data.

Show Time setup:
UP 1 : Displayed on up-right corner of screen, date & time listed in a rows.
UP 2 : Displayed on up-right corner of screen, date & time listed in two rows.
DOWN1 : Displayed on down-right corner of screen, date & time listed in a rows.
DOWN2 : Displayed on down-right corner of screen, date & time listed in two rows.

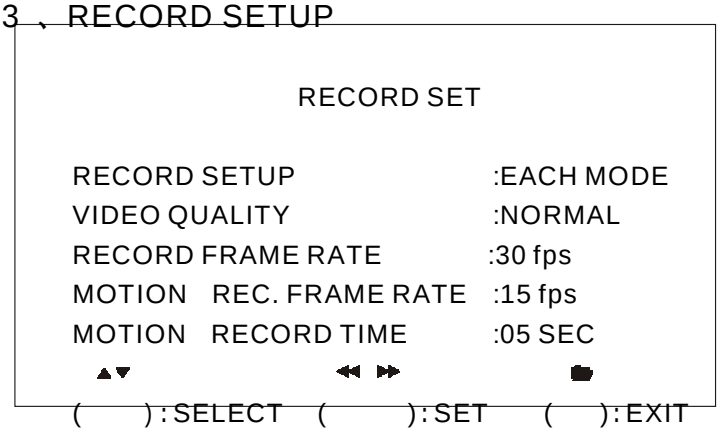
5-2 、CAMERA SETUP



Press ▲▼ to select items. Use ◀◀ ▶▶ to change data.
Press 🖿 to exit and to save data.

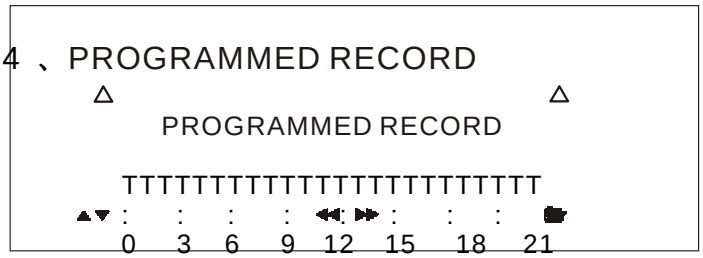
(1)Camera select (default value Ch1).
(2)Record Set up : yes or no record.
(3)Brightness / Contrast Set up : default value is 5.
(4)Motion Set up : motion detector, ON/OFF.
(5)Sensitivity Set up : sensitivity setup of motion detector.

5-3 、RECORD SETUP


RECORD SET
RECORD SETUP :EACH MODE
VIDEO QUALITY :NORMAL
RECORD FRAME RATE :30 fps
MOTION REC. FRAME RATE :15 fps
MOTION RECORD TIME :05 SEC
( ) : SELECT ( ) : SET ( ) : EXIT

(1) Record Setup:EACH MODE (frame recording),
QUAD MODE (quad recording).
(2) Video Quality: video quality selection: High, Normal, Low
(3) Record Frame Rate: QUAD MODE frame rate alternatives as follows:
→30、20、15、10、7.5、6、5、4、3、2、1 fps.
→In this mode ○1 、○2 、○3 、○4 invalid. Each Mode frame rate alternatives as follows:
→Maximum : 7.5 fps each camera Totally :30 fps = 7.5 x 4 CH
(4) Motion Record Frame Rate: Setting Record Frame Rate as(3) in Motion detector mode.
(5) MOTION Record Time : maximum 60 seconds sensor recording time.
□(4)(5) Record Schedule only valid in " S " selection.

5-4 、PROGRAMMED RECORD

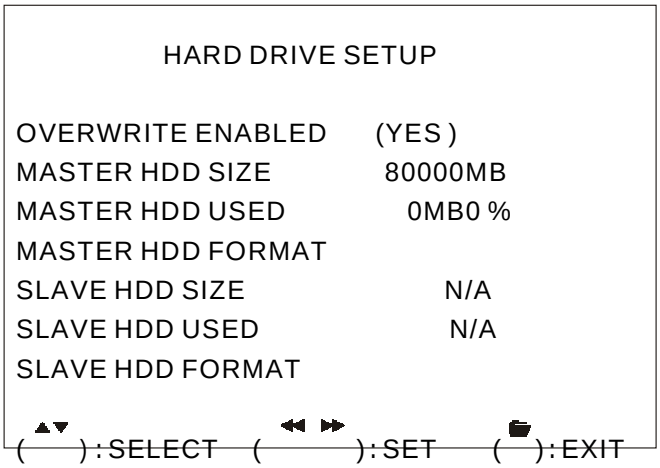


Press to select items. Use to change record mode.
Press to exit and to save data

(1)Use to change record mode.
(2)Range: 0-24 hrs.
(3)Set "T" for continuous recording.
(4)Set "M" for sensor recording. Please refer to 5-3 MOTION setup.
(5)Set up " - " to disable the record time.

★ If you want to enable Motion Recording, Please finish the setup procedure a. and b.
a. Select "MOTION SETUP: ON" in the menu option "CAMERA SETUP".
b. Set "PROGRAMMED RECORD" --- "M" in the menu option "RECORD SCHEDULE".

5-5、 HARD DRIVE SETUP


HARD DRIVE SETUP
OVERWRITE ENABLED (YES)
MASTER HDD SIZE 80000MB
MASTER HDD USED 0MB0 %
MASTER HDD FORMAT
SLAVE HDD SIZE N/A
SLAVE HDD USED N/A
SLAVE HDD FORMAT
( ):SELECT ( ):SET ( ):EXIT

(1)Overwrite Enabled
YES : Overwrite.
NO : Stop Recording.

(2)Master HDD Status
Indicates use of the master HDD including volume & percentage

(3)Master Format
Select this item to format HDD, screen show:
PASSWORD INPUT (6) ------ 6 digits.
If password correct, the screen shows : “ password correct “
Otherwise, it shows: “ password incorrect “

* Factory default password:111111
* HDD must be formatted before installation, replacement & re-installation.

5-6、 SYSTEM RESTORE

6、VIEW CONTROL

(1)Can use the following view control to monitor images from cameras.

- ① Camera #1 (Ch1), return to Quad Mode by press again.
- ② Camera #2 (Ch2),return to Quad Mode by press again.
- ③ Camera #3 (Ch3),return to Quad Mode by press again.
- 4 Camera #4 (Ch4),return to Quad Mode by press again.

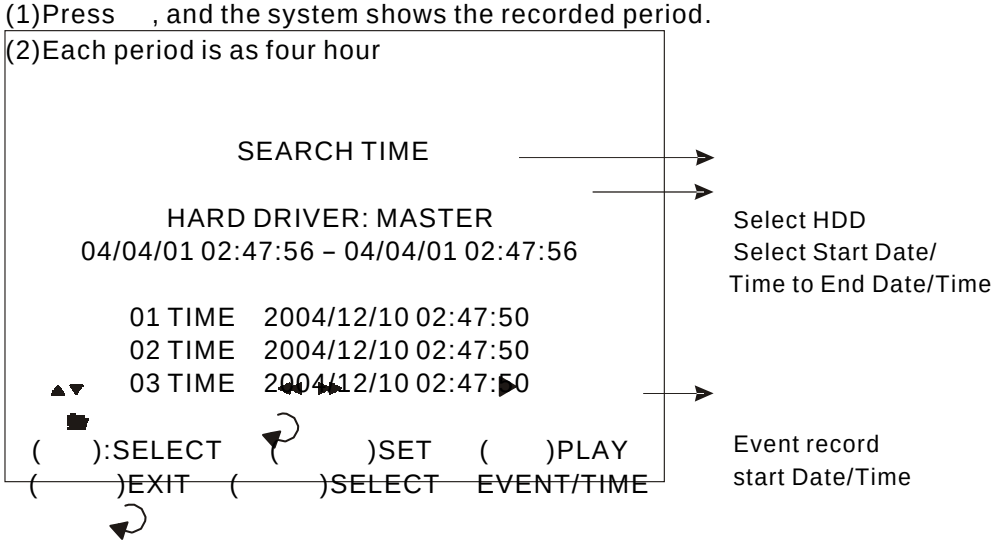
(2)Prior to view control, HDD must be formatted. Either "EACH MODE" or "QUAD MODE" should be selected. (Refer to 5-3)

(3)In mode of "QUAD MODE", view control is only for quad display not available for CH1, CH2, CH3, Ch4

7、PLAYBACK CONTROL

(1)Press , and the system shows the recorded period.

(2)Each period is as four hour



Press to select EVENT or DATE / TIME , Press to exit.

(1)EVENT :
Press ▲▼ choose one period, then press ▶ to play.
(2)DATE / TIME :
The signal ”>” goes up to the “HARD DRIVER: MASTER”. Press ▲▼ to select items. Use ◀◀ ▶▶ select to change data, Then press ▶ to play.
(3)PLAYBACK :
*Press ▶▶ to speed forward. Continue to press ▶▶ and show x2、x4、x8 multiple playing.
*Press ◀◀ to show x2 multiple back motion.
*Press ❚❚ to pause.
*Press ■ to stop.

8、RECORD CONTROL

(1)Press ⏲ " key to start recording.
Icon " " indicates recording.
(2) During recording, the mark ”*” appears in status of overwriting

9、NTSC / PAL SYSTEM SETUP

*J1 Jumper Setting as follow

NTSC J1

PAL J1

10. 4CH Recording Hours on 80GB Hard Drive

*Thereinafter a rough estimate a table for reference only, recording data quantity can follow an image a variation a rate somewhat different.

Recording Results in NTSC Format			30 fps	15 fps	7 fps	1 fps
Video Signal	Display Format	Video Quality				
NTSC	QUAD MODE	High	36Hours	72 Hours	144 Hours	1,080 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,440 Hours
		Basic	58 Hours	116 Hours	232 Hours	1,740 Hours
	EACH MODE (Full Screen)	High	64 Hours	128 Hours	256 Hours	1,920 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,700 Hours
		Basic	112 Hours	224 Hours	448 Hours	3,360 Hours
Recording Results in PAL Format			25 fps	12 fps	6 fps	1 fps
Video Signal	Display Format	Video Quality				
PAL	QUAD MODE	High	38 Hours	76 Hours	152 Hours	950 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,200 Hours
		Basic	60 Hours	120 Hours	240 Hours	1,500 Hours
	EACH MODE (Full Screen)	High	62 Hours	124 Hours	248 Hours	1,550 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,250 Hours
		Basic	118 Hours	236 Hours	472 Hours	2,950 Hours

11.DVR Viewer User Guide Revision V2.3.N.EN

Introduction

This document is the Operation Manual for DVR Viewer. The application will show you stream image stored in the HDD which was previously formatted and recorded by the DVR.

If any DVR HDD is connected to your PC, the application will automatically detect the HDD and show the recorded stream. You can also save the current screen to a BMP file, and save the current stream to a MYS stream file or an AVI file.

*We suggest to backup the video stream in MYS format for the fast speed.

The application consists of two functional modules:

□ DVR HDD PC Viewer	Shows stream stored in the HDD directly.
□ MYS File Player	Plays captured stream MYS file.

Requirement

□ OS	Windows 2000 SP4 / XP SP2 or later
□ DirectX	DirectX 7.0 or later

Recommendation

□ CPU	1.0 GHz or Higher
□ RAM	256 MB or Greater

Installation

Hardware Installation

As stated above, the application shows stream which is stored in DVR HDD.

Before installing and executing the application, make sure that you connected DVR HDD to the IDE cable of your PC directly, or via USB HDD adaptor

Software Installation

Make sure that the OS of your PC is Windows 2000 SP4 or later [XP SP2 or 2003]. Otherwise, the application will not operate properly. Double click on the DVR_Setup.exe to install the program.

Execution

Just double click the shortcut of the execution file. The application first detects physical HDDs installed at your PC and search for DVR HDD among them. This process may take up to 1 minute.

Shortcut to play the video files on your PC via the attached USB cable:

a. Connect USB cable both ends to the USB port of the DVR and your PC.

b. Supply 12VDC power to the DVR.

c. Wait until the message of USB detected pops up on the VGA monitor.

d. Run the PC Viewer software accordingly.

e. Wait until the very first image comes up to the PC Viewer.

f. Click “Play” icon on the control panel of the PC Viewer to start viewing the video files.

DVR Viewer

User Interface

Functions

Valid Stream Region Indication

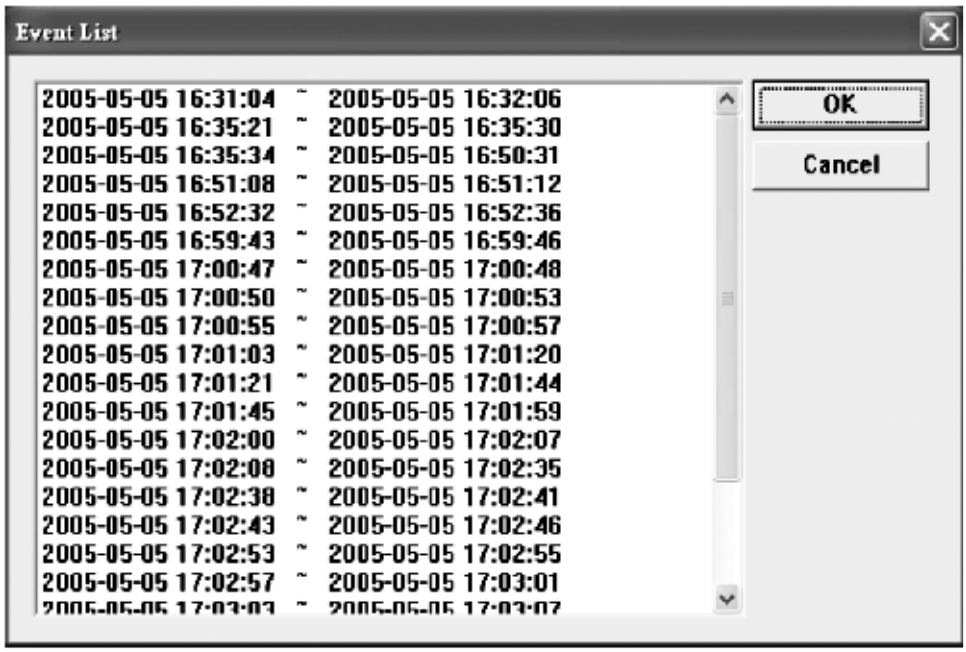
Once a DVR HDD is selected, the application detects valid stream region where valid video stream resides. You can drag this to access the whole streams of the DVR HDD.

Direct Access

If the stream stored in a DVR HDD is quite long, you may have difficulty to find the exact scene you want to see. When you find a scene you would like to show your friend or report to police officers later, please remember the number in the Direct Access Input edit box, so that you can go there directly by entering the number in the edit box and pressing "GO" button besides it.

Events List Button

You can access the latest 64 events and go to the event directly by this button.



Configure

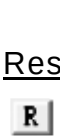
Options Button

You can change application settings such as MYS file save directory, or default video mode (NTSC/PAL). To change setting, press Options button

Status Button

Show the status on the screen.

Reset Button

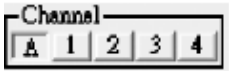


Reset the program.

Playback

Once a DVR HDD is selected, the application automatically displays first screen recorded at the very beginning of it. Then, you can see stream at anywhere within the valid stream reason.

Channel Selection



The default screen display channel setting is ALL CHANNEL, which shows all four channel (if the stream has 4 channel streams) at the same time. If you want to see a channel only or enlarge one channel, press any channel button you want.

HDD Selection

Once the application detects one or more DVR HDDs, it automatically selects the first DVR HDD. You can select any DVR HDD [the DVR HDDs are marked as "VY HDD ". However, you cannot select the normal HDD, which may be Windows-formatted one.

Capturing Button

Screen Capturing

If you want to capture, or backup, current screen, press Capture Current Screen button. Then it will capture the current screen and saves it as BMP file.

Stream Capturing Button

If you wan to capture, or backup, current stream, press Capture Current Stream button.Then it will record the stream you want. It will create .MYS file, whose format is Vineyard Technologies' proprietary stream file format. You can play the recorded file using MYS file player.

Stream Capturing Button

If you wan to capture, or backup, current stream, press Capture Current Stream button. Then it will record the stream you want. It will create .AVI file. You can play the recorded file using any player which support AVI file.

MYS File Player

You can play the recorded MYS file using MYS file player.